

**DERWENT-ACC- 1982-E7303E**  
**NO:**

**DERWENT- 198217**  
**WEEK:**

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**TITLE:** Composite joint prosthesis prodn. - blasts metal shank with silicon carbide or corundum after grinding

**INVENTOR:** BARTSCH, W D; BENZ, H ; GLLIEN, W ; MUSSTOW, C ; RUPP, J

**PATENT-ASSIGNEE:** GLIEN W[GLIEI]

**PRIORITY-DATA:** 1980DD-0222580 (July 14, 1980)

**PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>	<b>PAGES</b>	<b>MAIN-IPC</b>
DD 152055 A	November 18, 1981	N/A	000	N/A

**INT-CL (IPC):** A61F001/04

**ABSTRACTED-PUB-NO:** DD 152055A

**BASIC-ABSTRACT:**

The process forms joint prostheses comprising a metal shank and a ceramic head each. It is designed to avoid overloading of the head on joining to the shank and giving a permanent joint between the latter and the bone without subsequent operations.

The shank is ground to conventional tolerances and then blasted with silicon carbide or corundum to give a surface roughness of 0.5 to 1.2 microns in the axial direction, and 5 to 10 microns in the transverse direction respectively.

**DERWENT-CLASS:** P32

L Number	Hits	Search Text	DB	Time stamp
1	1	ultra\$1phobic same rough\$6 and sand near3 blast\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 13:46
2	2	ultra\$1phobic same rough\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 13:46
3	2	ultra\$1phobic and (rough\$6 (sand near3 blast\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 13:47
4	33	ultra\$1phobic	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:11
5	11	"1289899"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:07
6	12	sunyx.as. and ultraphobic	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:15
7	4	"5693236"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:26
8	12	(coat\$3 film) near9 (nm submicron) near3 thick\$6 same (texture\$4 roug\$6) and sand near3 blast\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:50
9	1	ultra\$1thin same (hydrophobic oleophobic silicone teflon fluor\$9) same (texture\$4 roug\$6 irregular\$6) and sand near3 blast\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:50
10	2	(ultra\$1thin (nm near9 thick\$9)) near9 (hydrophobic oleophobic silicone teflon fluor\$9) same (texture\$4 roug\$6 irregular\$6) and sand near3 blast\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:36
11	46	(ultra\$1thin (nm near9 thick\$9)) near9 (hydrophobic oleophobic silicone teflon fluor\$9) same (texture\$4 roug\$6 irregular\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:46
12	120	(ultra\$1thin monomolecular (nm near9 thick\$9)) same (hydrophobic oleophobic silicone teflon fluor\$9) same (surface micron) near9 (roug\$6 irregular\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:50

13	53	((ultra\$1thin monomolecular (nm near9 thick\$9)) same (hydrophobic oleophobic silicone teflon fluor\$9) same (surface micron) near9 (roug\$6 irregular\$6) ) and (blast\$4 etch\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 14:53
14	11	((ultra\$1thin monomolecular (nm near9 thick\$9)) same (hydrophobic oleophobic silicone teflon fluor\$9) same (surface micron) near9 (roug\$6 irregular\$6) ) and (blast\$4 (etch\$4 near3 mechanic\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 15:29
15	131	sand near3 blast\$4 near9 (nm micron)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 15:30
16	70	sand near3 blast\$4 near9 (nm micron) near9 (irregular\$9 rough\$9)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 15:31
17	5	sand near3 blast\$4 near9 (nm sub\$1micron) near9 (irregular\$9 rough\$9)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/11 15:32